Notice of Allowability	Application No.	Applicant(s)	•
	10/725,239	LIN ET AL.	
	Examiner	Art Unit	:
	Michael D Masinick	2125	•
The MAILING DATE of this communication apper All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap or other appropriate communication GHTS. This application is subject to	plication. If not included will be mailed in due c	d : ourse. THIS
1. This communication is responsive to <u>1/22/2004</u> .			
2. The allowed claim(s) is/are <u>1-5, 7-17, 19-29, 31-36</u> .			:
3. \boxtimes The drawings filed on <u>01 December 2003</u> are accepted by	the Examiner.		:
4. ☐ Acknowledgment is made of a claim for foreign priority un a) ☐ All b) ☐ Some* c) ☐ None of the:	der 35 U.S.C. § 119(a)-(d) or (f).		:
1. Certified copies of the priority documents have	heen received		
Certified copies of the priority documents have			:
Copies of the certified copies of the priority documents	· · · —		on from the
International Bureau (PCT Rule 17.2(a)).		manorial orago approan	
* Certified copies not received:			•
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requ	irements
5. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give	itted. Note the attached EXAMINER es reason(s) why the oath or declara	'S AMENDMENT or NO ation is deficient.	TICE OF
6. CORRECTED DRAWINGS (as "replacement sheets") mus	t be submitted.		:
(a) 🔲 including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached			
1) ☐ hereto or 2) ☐ to Paper No./Mail Date			:
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date			:
Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the			pack) of
7. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT			ote the
			:
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5. Notice of Informal F	Patent Application (PTO	· -152\
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summary	• • • • • •	-102)
_	Paper No./Mail Da	te	;
 Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 1/22/2004 	8), 7. ⊠ Examiner's Amendr	ment/Comment	:
4. Examiner's Comment Regarding Requirement for Deposit	8. 🛛 Examiner's Stateme	ent of Reasons for Allov	vance
of Biological Material	9.		
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EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Daniel McClure on March 11th, 2005.

The application has been amended as follows:

Listing of Claims

1 (Currently Amended) A computer-implemented method of calculating lot hold time, comprising using a computer to perform the steps of:

inputting a plurality of identification parameters of a lot;

calculating <u>a</u> lot hold time of the lot according to the identification parameters, <u>wherein</u> the calculating further comprises

calculating a first hold time according to an identification code and a reference database;

determining if the lot is a child lot according to the identification code;

reference database if the lot is a child lot; and

outputting the sum of the first hold time and the inherited hold time as the lot hold time if
the lot is a child lot or outputting the first hold time as the lot hold time if the lot
is not a child lot.

outputting the lot-hold time.

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2. (Original) The computer-implemented method as claimed in claim 1, wherein the lot is a split child lot.

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- 3. (Original) The computer-implemented method as claimed in claim 1, wherein the lot is passed through a first lot hold and a last lot hold, the first lot hold having a start time, the last lot hold having a termination time.
- 4. (Original) The computer-implemented method as claimed in claim 1, wherein the lot is passed through a first customer lot hold and a last customer lot hold, the first customer lot hold having a customer start time, the last customer lot hold having a customer termination time.
- 5. (Original) The computer-implemented method as claimed in claim 1, wherein the identification parameters comprise an identification code of the lot and a customer hold code of the lot.
 - 6. (Canceled).
- 7. (Currently Amended) The computer-implemented method as claimed in claim [[6]] 1, wherein step of calculating the first hold time further comprises the steps of obtaining the start time of the first lot hold from the reference database; obtaining the termination time of the last lot hold from the reference database; and calculating the first hold time according to the start time of the first lot hold and the termination time of the last lot hold.
- 8. (Currently Amended) The computer-implemented method as claimed in claim [[6]] 1, wherein the reference database is enabled by a MES database.
- 9. (Currently Amended)The computer-implemented method as claimed in claim 1, wherein the calculating step further comprising comprises:

calculating <u>a</u> first hold time according to the identification code and a reference database; calculating <u>a</u> customer hold time according to the customer hold code and the reference database;

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determining if the lot is a child-lot according to the identification code;

calculating <u>an</u> inherited hold time according to the identification code and the reference database if the lot is a child lot;

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- designating <u>a</u> second hold time as the sum of the first hold time and the inherited hold time if the lot is a child lot; and
- outputting the second hold time and the customer hold time as the hold time if the lot is a child lot or outputting the first hold time and the customer hold time as the hold time if the lot is not a child lot.
- 10. (Original) The computer-implemented method as claimed in claim 9, wherein step of calculating the first hold time further comprises the steps of:

obtaining the start time of the first lot hold from the reference database;

obtaining the termination time of the last lot hold from the reference database;

- calculating the first hold time according to the start time of the first lot hold and the termination time of the last lot hold.
- 11. (Original) The computer-implemented method as claimed in claim 9, wherein step of calculating the customer hold time further comprises the steps of:
 - obtaining the customer start time of the customer first lot hold from the reference database;
 - obtaining the customer termination time of the last customer lot hold from the reference database; and
 - calculating the customer hold time according to the customer start time of the customer first lot hold and the customer termination time of the last customer lot hold.
 - 12. (Original) The computer-implemented method as claimed in claim 9, wherein the reference database is enabled by a MES database.
- 13. (Currently Amended) A <u>computer program embodied on a computer-readable</u> storage medium for storing a <u>computer program providing</u> for <u>carrying out</u> a method of

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calculating <u>a</u> lot hold time, the computer program comprising <u>using code</u> <u>for instructing</u> a computer to perform the steps of:

inputting a plurality of identification parameters of a lot;

calculating lot hold time of the lot according to the identification parameters, wherein the calculating further comprises

calculating a first hold time according to an identification code and a reference database;

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determining if the lot is a child lot according to the identification code;

calculating an inherited hold time according to the identification code and the reference database if the lot is a child lot; and

outputting the sum of the first hold time and the inherited hold time as the lot hold time if
the lot is a child lot or outputting the first hold time as the lot hold time if the lot
is not a child lot.

outputting the lot hold time.

- 14. (Currently Amended) The <u>computer program storage medium</u> as claimed in claim 13, wherein the lot is a split child lot.
- 15. (Currently Amended) The <u>computer program storage medium</u> as claimed in claim 13, wherein the lot is passed through a first lot hold and a last lot hold, the first lot hold having a start time, the last lot hold having a termination time.
- 16. (Currently Amended) The <u>computer program storage medium</u> as claimed in claim 13, wherein the lot is passed through a first customer lot hold and a last customer lot hold, the first customer lot hold having a customer start time, the last customer lot hold having a customer termination time.
- 17. (Currently Amended) The <u>computer program storage medium</u> as claimed in claim 13, wherein the identification parameters comprise an identification code of the lot and a customer hold code of the lot.

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18. (Canceled).

19. (Currently Amended) The <u>computer program storage medium</u> as claimed in claim [[18]] 13, wherein the calculating step of the first hold time further comprises the steps of obtaining the start time of the first lot hold from the reference database; obtaining the termination time of the last lot hold from the reference database; and calculating the first hold time according to the start time of the first lot hold and the termination time of the last lot hold.

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- 20. (Currently Amended) The <u>computer program storage medium</u> as claimed in claim [[18]] <u>13</u>, wherein the reference database is enabled by a MES database.
- 21. (Currently Amended) The <u>computer program storage medium</u> as claimed in claim 13, wherein the calculating step further comprises step of <u>further comprising</u>:

calculating first hold time according to the identification code and a reference database; calculating a customer hold time according to the customer hold code and the reference database;

determining if the lot is a child-lot according to the identification code;

- calculating inherited hold time according to the identification code and the reference database if the lot is a child lot:
- designating <u>a</u> second hold time as the sum of the first hold time and the inherited hold time if the lot is a child lot, and
- outputting the second hold time and the customer hold time as the hold time if the lot is a child lot or outputting the first hold time and the customer hold time as the hold time if the lot is not a child lot.
- 22. (Currently Amended) The <u>computer program storage medium</u> as claimed in claim 21, wherein step of calculating the first hold time further comprises the steps of obtaining the start time of the first lot hold from the reference database; obtaining the termination time of the last lot hold from the reference database; and

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calculating the first hold time according to the start time of the first lot hold and the termination time of the last lot hold.

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- 23. (Original) The <u>computer program storage medium</u> as claimed in claim 21, wherein step of calculating the customer hold time further comprises the steps of:
 - obtaining the customer start time of the customer first lot hold from the reference database;
 - obtaining the customer termination time of the last customer lot hold from the reference database; and
 - calculating the customer hold time according to the customer start time of the customer first lot hold and the customer termination time of the last customer lot hold.
- 24. (Original) The <u>computer program storage medium</u> as claimed in claim 21, wherein the reference database is enabled by a MES database.25. (Currently Amended) A <u>computer</u> system <u>for</u> [[of]] calculating lot hold time, comprising:
 - an input module, inputting a plurality of identification parameters of a lot;
 - a calculation module, calculating lot hold time of the lot according to the identification parameters, the calculation module further comprising
 - a first calculation module, calculating first hold time according to the identification code and a reference database;
 - a determination module, determining if the lot is a child lot according to the identification code;
 - a child lot calculation module, calculating inherited hold time according to the identification code and the reference database if the lot is a child lot, and
 - a child lot output module, outputting the sum of the first hold time and the inherited hold time as the hold time if the lot is a child lot, and
 - a non-child lot output module, outputting the first hold time as the hold time if the lot is not a child lot.

an output module, outputting the lot hold time.

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25. (Currently Amended) A <u>computer</u> system <u>for</u> [[of]] calculating lot hold time, comprising:

- an input module, inputting a plurality of identification parameters of a lot;
- a calculation module, calculating lot hold time of the lot according to the identification parameters, the calculation module further comprising

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- a first calculation module, calculating first hold time according to the identification code and a reference database;
- a determination module, determining if the lot is a child lot according to the identification code;
- a child lot calculation module, calculating inherited hold time according to the identification code and the reference database if the lot is a child lot, and
- a child lot output module, outputting the sum of the first hold time and the inherited hold time as the hold time if the lot is a child lot; and
- a non-child lot output module, outputting the first hold time as the hold time if the lot is not a child lot.

an output module, outputting the lot hold time.

- 26. (Currently Amended) The <u>computer</u> system as claimed in claim 25, wherein the lot is a split child lot.
- 27. (Currently Amended) The <u>computer</u> system as claimed in claim 25, wherein the lot is passed through a first lot hold and a last lot hold, the first lot hold having a start time, the last lot hold having a termination time.
- 28. (Currently Amended) The <u>computer</u> system as claimed in claim 25, wherein the lot is passed through a first customer lot hold and a last customer lot hold, the first customer lot hold having a customer start time, the last customer lot hold having a customer termination time.

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29. (Currently Amended) The <u>computer</u> system as claimed in claim 25, wherein the identification parameters comprise an identification code of the lot and a customer hold code of the lot.

- 30. (Canceled).
- 31. (Currently Amended) The <u>computer</u> system as claimed in claim [[30]] <u>25</u>, wherein the first calculation module further obtains the start time of the first lot hold from the reference database, obtains the termination time of the last lot hold from the reference database, and calculates the first hold time according to the start time of the first lot hold and the termination time of the last lot hold.
- 32. (Currently Amended) The <u>computer</u> system as claimed in claim [[30]] <u>25</u>, wherein the reference database is enabled by a MES database.
- 33. (Currently Amended) The <u>computer</u> The system as claimed in claim 25, wherein the calculation module further comprises <u>further comprising</u>:
 - a-first calculation-module, calculating first hold time according to the identification code and a reference database;
 - a customer calculation module, calculating customer hold time according to the customer hold code and the reference database; and
 - a determination module, determining if the lot is a child lot according to the identification code;
 - a child lot calculation module, calculating inherited hold time according to the identification code and the reference database if the lot is a child lot;
 - a designation module, designating second hold time as the sum of the first hold time and the inherited hold time if the lot is a child lot.[[;]]
 - a child lot output module, outputting the second hold-time and the customer hold time as
 the hold time if the lot is a child lot; and

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a non-child lot output module, outputting the first hold time and the customer hold time as the hold time if the lot is not a child lot.

- 34. (Currently Amended) The <u>computer</u> system as claimed in claim 33, wherein the first calculation module further obtains the start time of the first lot hold from the reference database, obtains the termination time of the last lot hold from the reference database, and calculates the first hold time according to the start time of the first lot hold and the termination time of the last lot hold.
- 35. (Currently Amended) The <u>computer</u> system as claimed in claim 33, wherein the customer calculation module further obtains the customer start time of the customer first lot hold from the reference database, obtains the customer termination time of the last customer lot hold from the reference database, and calculates the customer hold time according to the customer start time of the customer first lot hold and the customer termination time of the last customer lot hold.
- 36. (Currently Amended) The <u>computer</u> system as claimed in claim 33, wherein the reference database is enabled by a MES database.

37-48 (Canceled).

- 2. The following is an examiner's statement of reasons for allowance:
- 3. While U.S. Patents 6,748,287 to Hagen et al and 6,308,107 to Conboy et al (as representatives of the prior at made of recrd) show calculating a lot hold time through inputted parameters, neither this reference taken alone or in combination with the prior art of record disclose the step of determining of the lot is a split child lot and adjusting the hold time output

based on the split child lot status obtained from a database. It is this child lot identification and adjusting step, in combination with the remaining elements and features of the invention, that the applicant's invention defines over the prior art of record.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael D Masinick whose telephone number is (571) 272-3746.

The examiner can normally be reached on Mon-Fri, 7:30-4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Leo Picard can be reached on (571) 272-3749. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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MDM

J-P.P.

LEO PICARD SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2100